

PELOVA, N.; UZUNOV, P.

Experimental studies on pulmonary tumors produced with urethane in mice. Suvrem med., Sofia no.4/5:55-63 '61.

1. Iz Katedrata po patologichna anatomia pri Visshia meditsinski institut, Sofiya. (Rukovoditel na katedrata prof. B. Kurdzhiev.)

(LUNG NEOPLASMS exper) (URETHANE toxicol)

SIVCHEV, S.; VELIZAROV, A.; PELOVA, N.; PETRINSKA, S.; UZUNOV, P.; TAKOV, R.
VULKOV, Iv.

Pathomorphology in the influenza epidemic of 1959. Suvrem med.,
Sofia no.7:61-67 '61.

1. Katedra po patologiczna anatomia pri Visshia meditsinski institut,
Sofia. Rukov. na katedrata prof. B. Kurdzhiev.

(INFLUENZA pathol)

Oncology

BULGARIA

PELOVA, N., Department of Pathological Anatomy, Higher Institute of Medicine, Sofia

"The Histological Changes Characteristic of the Transition of Prostatic Hyperplasia into Cancer"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 8, 1966, pp 763-765

Abstract: [English article] Numerous studies carried out on the interrelations between hyperplasia and cancer of the prostate gland have not yielded conclusive results yet. The present paper reports on the histological changes characteristic of the development of carcinoma on the basis of prostatic hyperplasia. Investigations were carried out on 78 prostatic carcinomas from biopsy material of the Department of Pathological Anatomy at the Higher Institute of Medicine in Sofia. Staining was done with hematoxylineosin, *à. v. Giesson*, with azane after Heidenheim, for elastic fibres after Weigert, and for agrophilic fibres after Gomori and Foot. Histological changes illustrated by color pictures are discussed at considerable length. There are 2 Bulgarian, 2 Soviet-block, and 7 Western references. (Manuscript received, 8 Apr 66.)

APPROVED FOR RELEASE: 06/15/2000 MILA CIA-RDP86-00513R001239910014-1"

PAVLOVIC, Stanoje, dr;

A case of diffuse peritonitis with hemolytic hepato-renal syndrome after abortion. Srpski arh. celok. lek. 88 no.10:1019-1021 0 '60.

1. Ginekolosko-akusersko odeljenje Opste bolnica u Zajecaru. Sef: dr Stanoje Pavlovic.

(ABORTION CRIMINAL compl) (PERITONITIS etiol)
(KIDNEY DISEASE etiol) (LIVER DISEASE etiol)
(ANEMIA HEMOLYTIC etiol)

FELOVA, N.; FERNANDES, A.; MEIIA, F.; KABRERA, A.

Leiomyosarcoma of the ileum. Khirurgiia (Sofia) 16 no.12:
1124-1126 '63.

1. Iz patologoanatomichnogo otdelenie na provintsialnata
bolnitsa "Manuel Askunse" Kamaguei, Kuba).

*

Category : PELRZILKA, VACLAV
CZECHOSLOVAKIA/Nuclear Physics - Cosmic rays

C-7

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 620

Author : Dubinsky Juraj, Chaloupka Pavel, Pelrzilka Vaclav, Tomashova Lenka.
Inst : Univ. Karlovy v Praze, Fys. ustav CSAV v Praze, Prague, Czechoslovakia
Title : Geomagnetic Effect of Extensive Showers of Cosmic Rays.

Orig Pub : Ceskosl. casop. fys., 1955, 5, No 3, 293-296

Abstract : A study is made of the influence of the earth's magnetic field on the distribution of the density of extensive showers of cosmic rays. The core of the shower is determined with lead-shielded counters checked for coincidence against another set of counters, which in turn was alternately placed at equal distances in the southern or western directions. Measurements have shown that, at distances of 30 meters, the density in the western direction is 40% higher than in the southern one; at a distance of 50 meters this difference increases still more to 60%. The reported differences are way beyond the limits of statistical errors.

Card : 1/1

PEL'TSIKH, L. A.

EPP.
.R93050

VLIYANIYE PRAVIL'NOGO UKHODA NA ROST I UROZHAY SEL'SKOKHOZYAYSTVENNYKH
RASTENIY. MOSKVA, IZD-VO ZNANIYE, 1952. 36 p. ILLUS., TABLES (VSESOYUZNOYE
OBSHCHESTVO PO RASPROSTRANENIYU POLITICHESKIKH I NAUCHNYKH ZNANIY. 1952,
SERIYA 3 NO. 47)

PNH, R.M. (Moskva)

Conference dedicated to some problems in the physiology and pathophysiology of the higher nervous activity in children.
Vop.okh.mat. 1 det. 2 no.1:83-85 Ja-F '57. (MLRA 10:2)
(PSYCHOLOGY, PHYSIOLOGICAL)

PENAYEV, D.

PENAYEV, D. -- "The Treatment of Acute Diffuse Peritonitis. Based on Material from hospital surgery in the clinic of the Turkmen Medical Inst from 1938 to 1954." Turkmen State Medical Inst imeni I. V. Stalin. Ashkhabad, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 1, 1956

BULGARIA / General Problems of Pathology. Tumors. U
Comparative Oncology. Tumors of Man.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102716.

Author : Kurdzhiyev, B.; Sivchev, S.; Kurtsev, D.; Pelova,
N.; Bayev, B.; Dobrev, Ts.

Inst : Sofia Advanced Medical Institute.

Title : Carcinoma of the Lungs. Anatomical-Clinical Study
of Material from the Pathological-Anatomical In-
stitute.

Orig Pub: Nauchni tr. Vissh. med. in-t, Sofiya, Klinich.
katedri, 1955 (1957), 3, No 1, 159-194.

Abstract: No abstract.

END

Card 1/1
#1226

80

MIKHAILOV, G.; VELIZAROV, A.; PELOVA, N.

~~XXXXXXXXXXXX~~
Causes of postoperative deaths. Khirurgiia, Sofia 8 no.1:
4-9 1955.

1. Visssh meditsinski institut V. Chervenkov - Sofia. Institut
po obshcha patologiya i patologichna anatomia, zav. katedrata:
prof. B. Kurdzhiev.

(SURGERY, OPERATIVE,
postop.mortal.causes)

KARDZHIYEV, B., SIVCHEV, S., KRYSTEV, D., PELOVA, N., BAYEV, B., DOBREV, TS.

Clinical and anatomical characteristics of lung cancer. Arkh.pat.
18 no.3:58-61 '56 (MIRA 11:10)

1. Iz kafedry obshchey patologii i patologicheskoy anatomii
(zav. - prof. B. Kardzhyev) i kafedry gosspital'noy khirurgii
(zav. prof. St.Dimitrov) Vysshego meditsinskogo instituta imeni
Vulko Chervenкова.

(LUNGS, neoplasms
anat. aspects & statist. (Rus))

RAICHEVA, L.; PELOVA, N.

Atypical case of autochthonous visceral leishmaniasis and infarction of the right auricle resulting from associated atherosclerosis. Suvrem.med., Sofia no.11:88-92 '59.

1. Iz Katedrata po bolnichna terapiia pri VMI - Sofia. Zav. katedrata: prof. Al. Pukhlev. i Katedrata po patologichna anatomia pri VMI - Sofia. Zav. katedrata: prof. B. Kurdzhiev.

(LEISHMANIASIS VISCERAL compl.)

(MYOCARDIAL INFARCT compl.)

(ARTERIOSCLEROSIS compl.)

PELOVA, N.; MUZHLEKOV, M.

Teratomas of the ovary according to biopsy material of the Institute of Pathology and of the Gynecological and Obstetrical Clinic at the Medical School in Sofia and of the Institute for Pathology and Onkology at the postgraduate Medical Training Institute in Sofia. Suvrem. med., Sofia 8 no.9:12-20 1957.

1. Iz Katedrata na patologichna anatomia pri VMI - Sofia (Zavezhdashch: prof. B. Kurdzhiev) Akusheroginekologichnata klinika pri ISUL - Sofia (Direktor: doc. Nikolov)

(TERATOMA, statist.

classif. of ovarial teratoma according to biopsy)

(OVARIES, neoplasms

teratoma, statist. on classif. according to biopsy)

PELOVA, N.

MIKHAILOV, G. professor; VELIZAROV, At.; PELOVA, N.

Causes of postoperative mortality. Khirurgia, Sofia 8 no.2:
97-110 1955.

1. Vissh meditsinski institut v Chervenkov-Sofia institut po
obshcha patologiya i patologichna anatomia zav.katedrata:
prof. B.Kurdzhiev.

(THORAX, surgery,
postop. mortal.)

(NECK, surgery,
postop. mortal.)

(SURGERY, OPERATIVE, complications,
fatal)

PEIKOV, Ivan, inzh.; PELOVSKI, Simeon, inzh.

Design for the first submerged hydroelectric-power station in our country. Khidrotekh i melior 7 no.5:158-159 '62.

273 AEC-tr-2302

PHOTOPRODUCTION OF π^0 MESONS FROM DEUTERIUM.

A. S. Pelcovsky, A. V. Kolsenko, and E. I. Tamm. Translated by V. N. Ritsky-Korsakoff from Doklady Akad. Nauk S.S.S.R. 102, 921-3(1955). 6p.

Photoproduction of π^0 mesons from deuterons is applied to the experimental determination of the relative sign of the interaction constants of a proton and a neutron in a π^0 meson field. Descriptions of experiments are included. (D.K.B.)

BULGARIA

Lt. Col. P. PELOVSKI, Medical Corps (Podpolkovnik of meditsinskata sl.)

"Plastic Coverage of Cranial and Dural Defects"

Sofia, Voenno Meditsinsko Delo, Vol 18, No 1, Feb 1963; pp 23-26.

Abstract [Russian summary modified]: Detailed description of clinical and surgical data on ten patients operated by author using "plexiglas" plastic artificial glass which can be molded (90 to 100° centigrade, thickness 0.2 cm.) Most gratifying results. Discussion of various homo- hetero- and allo- as well as auto- plastic materials used in replacing dura mater; umbilical cord prepared in special way is among best substitutes.

1/1

PEL'POR, D. S.

BRASLAVSKIY, D.A.; LOBUNOV, S.S.; ~~PEL'POR, D.S.~~; VELLER, Ye.L., redaktor;
SHCHERBAKOV, P.V., tekhnicheskiiy redaktor

[Calculation and design of aeronautical instruments] Raschet i
konstruktsiia aviatsionnykh priborov. Moskva, Gos. izd-vo oboronomoi
promyshlennosti, 1954. 583 p. [Microfilm] (MIRA 8:3)
(Aeronautical instruments)

124-1957-1-49

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 6 (USSR)

AUTHOR: Pel'por, D. S.

TITLE: The Motion of a Gyroscope With the Rotor Axis Approaching the Axis of the External Gimbal (Dvizheniye giroskopa pri sblizhenii osi yego rotora s os'yu naruzhnoy ramki kardana)

PERIODICAL: V sb.: Elementy teorii i rascheta giroskopicheskikh i navigatsionnykh priborov (MVTU, Nr 48). Moscow, Oborongiz, 1955, pp 6-22

ABSTRACT: The motions discussed in the paper occur in aircraft gyroscopes during aerobatic maneuvers of the aircraft. The Author derives the equations of motion and then examines the behavior of a gyroscope during the performance of Nesterov's loop. In a free gyroscope the approach of the rotor axis toward the position of the gimbal axis may lead to a quick flip-over of the outer gimbal. Curves are set forth showing the character of the angular-velocity and angular-acceleration variations of the gimbals. Also discussed is the precessional motion of a gyroscope when the rotor and gimbal axes are nearly coincident.

Card 1/2

124-1957-1-49

The Motion of a Gyroscope With the Rotor Axis Approaching (cont.)

Therein the effect of the friction in the axial bearings of the gimbal is investigated, where the friction is proportional to the angular velocity. The Author shows that, in certain circumstances, the frictional moment in the axial bearings and the moment of inertia of the gimbals may draw both gimbals into coincidence ("attraction" of the rotor axis) or effect an opposite action ("repulsion" of the rotor axis). In either case the above-mentioned moments modify the position of the gyroscopic rotor in space. Some means for preventing the coincidence of the axes are briefly discussed.

V. N. Skimel'

1. Gyroscopes--Motion--Theoretical analysis

Card 2/2

PEL'POR, D.S.

PAVLOV, V.A., kandidat tekhnicheskikh nauk, dotsent; TUNIMANOV, A.Z., inzhener; ANTONOV, A.K., inzhener; GUSHCHINA, L.M., inzhener; RIVKIN, S.S., doktor tekhnicheskikh nauk; SAYDOV, P.I., kandidat tekhnicheskikh nauk dotsent; PEL'POR, D.S., doktor tekhnicheskikh nauk, professor; RYABOV, B.L., doktor tekhnicheskikh nauk, professor; TIKHMENEV, S.S., doktor tekhnicheskikh nauk, professor; FRIDLENDER, G.O., doktor tekhnicheskikh nauk, professor; CHISTYAKOV, N.I., doktor tekhnicheskikh nauk, professor.

Can V.A. Pavlov's book "Aircraft gyroscope instruments" be recommended for use as a textbook? Priborostroyeniye no.1:29-31 Ja '57.

(MIRA 10:4)

1. Chlen pravleniya Leningradskogo otdeleniya nauchnogo inzhenerno-tekhnicheskogo obshchestva priborostroyitel'noy promyshlennosti (for Tunimanol).
2. Chlen pravleniya Vsesoyuznogo nauchnogo inzhenerno-tekhnicheskogo obshchestva priborostroyitel'noy promyshlennosti (for Gushchina)
3. Moskovskoye Vyssheye tekhnicheskoye uchilishche imeni Bauman (for Pel'por, Tikhmenev).
4. Moskovskiy aviatsionnyy institut imeni Serge Ordzhonikidse (for Ryabov).
5. Voenno-vozdushnaya inzhenernaya akademiya imeni N.Ye. Zhukovskogo (for Chistykov)

(Gyroscope)

PEL'POR, Dmitriy Sergeyevich, professor, doktor tekhnicheskikh nauk.

Talking about gyroscopes. Tekh.mol. 25 no.6:24 Je '57.

(MIRA 10:7)

(Gyroscope)

16(1), 24(5)

SOV/159-58-3-29/31

AUTHOR: Pel'por, D.S.

TITLE: The Free Motion of a Gyroscope Enclosed in a Gimbal

PERIODICAL: Nauchnyye doklady vysshey shkoly, Mashinostroyeniye i priborostroyeniye, 1958, Nr 3, pp 207-211 (USSR)

ABSTRACT: This is Part I of a paper dealing with the mathematical analysis of the free motion of a gyroscope in a gimbal. Part II of this paper will be published in the next number of this periodical. The moment vector of the quantity of motion of a free gyroscope maintains its uncharged direction in absolute space. The rotor axis of a symmetric, rapidly rotating gyroscope describes a circular cone around this direction (nutation motion). The angle of the opening span of this cone is very small. Therefore it is considered that the rotor axis of a free gyroscope maintains its unchanged direction in space, because of the smallness of the opening span angle. The capability of a free gyroscope in maintaining an unchanged direction in absolute space is thereby incorrectly attributed to technical gyroscopes with

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SOV/159-58-3-29/31

The Free Motion of a Gyroscope Enclosed in a Gimbal

gimbals for providing the freedom of motion around a stationary point. The author presents non-linear differential equations for the motion of a gyroscope in a gimbal. These equation (7,8) showm that with nutation motion of the gyroscope, besides harmonic rotor axis oscillations of the gyroscope around the axes of the internal and external gimbal frames, the rotor axis of the gyroscope will rotate also around the axis of the external gimbal frame with an angular speed having an averaged magnitude equal to α_0 , if the rotor axis of the gyroscope does not coincide with the perpendicular to the external gimbal frame.

$$\alpha_0 = \frac{C r \sin \beta_0 (A_2 + C_1)}{2 (A + A_1) [A_2 + (A + B_1) \cos^2 \beta_0 + C_1 \sin^2 \beta_0]} (\Delta \alpha_0)^2 \quad (7)$$

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The Free Motion of a Gyroscope Enclosed in a Gimbal

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$$\dot{\alpha} = - \frac{C \sin \beta_0 (A_2 + C_1)}{2 [A_2 + (A + B_1) \cos^2 \beta_0 + C_1 \sin^2 \beta_0]^2} (A \beta_0)^2 \quad (8)$$

Thereby β_0 are Résal angles, A and C are rotor inertia moments, A_1 , B_1 and C_1 are inertia moments of the internal gimbal frame, A_2 inertia moment of the external gimbal frame in regard to its axis of rotation. At the end of Part I. the author states that a gyroscope enclosed in a gimbal cannot serve as an indicator of a direction unchanged in absolute space. There are 2 diagrams and 4 references, 2 of which are Soviet, 1 German and 1 American.

This article was presented by the Kafedra "Giroskopicheskiye pribory" Moskovskogo vysshego tekhnicheskogo uchilishcha imeni Baumana (Chair "Gyroscope Instruments" of the Moscow Higher Technical School imeni Bauman)

May 27, 1958

SUBMITTED:
Card 3/3

POL'POR, D.S.

Effect of inertia of a Cardan joint on the motion of a free
gyroscope mounted on a rocking platform. Nauch.dokl.vys.shkoly;
mash.i prib. no.4:242-248 '58. (MIRA 12:5)

1. Stat'ya predstavlena kafedroy "Giroskopicheskiye pribory"
Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana.
(Gyroscope)

Pel'Por, D.S.

ALIKPEROV, V.P., inzh.; ATOVMYAN, I.O., inzh.; ZUYEV, V.I., inzh.; KAVUN, Ye.S., kand.tekhn.nauk; KOGAN, B.Ya., kand.tekhn.nauk; KOPAY-GORA, P.N., kand.tekhn.nauk; KULAKOV, A.A., inzh.; LEBEDEV, A.N., kand.tekhn.nauk; PAPERNOV, A.A., doktor tekhn.nauk; PEL'POR, D.S., doktor tekhn.nauk; PLOTNIKOV, V.N., kand.tekhn.nauk; RUZSKIY, Yu.Ye., kand.tekhn.nauk; SOLODOVNIKOV, V.V., doktor tekhn.nauk; TOPCHYEYEV, Yu.I., kand.tekhn.nauk; ULANOV, G.M., kand.tekhn.nauk; SHRAMKO, I.S., kand.tekhn.nauk; DOBROGURSKIY, S.O., doktor tekhn.nauk, retsenzent; KAZAKOV, V.A., kand.tekhn.nauk, retsenzent; PETROV, V.V., kand.tekhn.nauk, retsenzent; KHAVKIN, G.A., inzh., retsenzent; SOLODOVNIKOV, V.V., prof., doktor tekhn.nauk, red.; VITENBERG, I.M., kand.tekhn.nauk, nauchnyy red.; MOLDAVER, A.I., kand.tekhn.nauk, nauchnyy red.; KHETAGUROV, Ya.A., kand.tekhn.nauk, nauchnyy red.; POLYAKOV, G.F., red.izd-va; KONOVALOV, G.M., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of automatic control] Osnovy avtomaticheskogo regulirovaniya. Vol.2. [Elements of automatic control systems] Elementy sistem avtomaticheskogo regulirovaniya. Pt 2. [Compensating elements and computer components] Korrektiruiushchie elementy i elementy vychislitel'nykh mashin. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry. 1959. 453 p. (MIRA 12:4)
(Automatic control) (Electronic apparatus and appliances)
(Electronic calculating machines)

28(1)

PHASE I BOOK EXPLOITATION

30V/2087

Классификация автоматического регулирования. Ч. 1. Чувствительные устройства и исполнительные механизмы. (Elements of Automatic Control Systems. Part I. Sensing Elements and Control Mechanisms. Vol. 1. 722 p. (Series: Osnovy avtomaticheskogo regulirovaniya, t. 2) Errata slip inserted. 13,000 copies printed.

Authors: P. P. Galtsev, Candidate of Technical Sciences, V. A. Krasov, Doctor of Technical Sciences, P. P. Klobukov, Candidate of Technical Sciences, V. V. Petrov, Candidate of Technical Sciences, Yu. D. Ragozin, Candidate of Technical Sciences, Ya. E. Mayngol'd, Engineer, B. A. Ryabov, Doctor of Technical Sciences, B. D. Sadovskiy, Candidate of Technical Sciences, S. V. A. G. Saybel', Candidate of Technical Sciences, and A. K. Vitenberg, Candidate of Technical Sciences. Scientific Editor: A. K. Vitenberg, Candidate of Technical Sciences, A. K. Vitenberg, Doctor of Technical Sciences, and Yu. I. V. Ragozin, Doctor of Technical Sciences; Editor: A. G. Krasov, Doctor of Technical Sciences, A. G. Krasov, and G. K. Krasov, Doctor of Technical Sciences; and P. P. Solov'ev, Managing Editor for Literature on Machine Building and Instrument Construction (Mashizh): N. V. Furkova, Engineer.

PURPOSE: This book is intended for engineering and scientific personnel and for instructors of courses concerned with problems of automatic control.

COVERAGE: The authors explain the principle of operation of automatic control elements and servomechanisms. They also discuss typical automatic control circuits and present equations of motion and static and dynamic characteristics of control elements. They describe such elements as amplifiers, control elements, and the like. The book contains Sections I, II, and III of Part I volume II. "Principles of Automatic Control." The following persons participated in writing the present work: D. A. Brelavskiy, Candidate of Technical Sciences, paragraph 4 of Chapter IV; L. S. Gol'dfarb, Doctor of Technical Sciences, paragraphs 1, 2, 6 and 7 of Chapter I; A. I. Gusev, Candidate of Technical Sciences, paragraph 1 of Chapter VIII; K. Ye. Dmitriyev, Candidate of Technical Sciences, paragraph 2 of Chapter VIII; V. A. Kalashnikov, Engineer, Chapter XIV; P. P. Klobukov, Candidate of Technical Sciences, paragraphs 2 and 3 of Chapter XII; P. P. Klobukov, Candidate of Technical Sciences, paragraph 1 of Chapter XIII; A. K. Krasov, Doctor of Technical Sciences, paragraph 1 of Chapter XIII; and Chapter XIV; A. S. Pol'pov, Doctor of Technical Sciences, paragraphs 1-3 of Chapter XIII; V. V. Petrov, Candidate of Technical Sciences, paragraph 1 of Chapter XIII, and Chapter XIV; M. A. Rozentat, Doctor of Technical Sciences, Chapter XIV; Yu. Ye. Ruzhik, Candidate of Technical Sciences, paragraphs 1, 3-5 and 8-10 of Chapter I; paragraph 2 of Chapter I; and 17 of Chapter II; P. P. Klobukov, Candidate of Technical Sciences, paragraph 1 of Chapter II; A. A. Sokolov, Candidate of Technical Sciences, paragraph 1 and Chapter VI; V. A. Vitenberg, Candidate of Technical Sciences, paragraphs 9-13 of Chapter IV, paragraph 4 of Chapter I, and Chapter XII; G. M. Ulanov, Candidate of Technical Sciences, paragraph 1 of Chapter II; Ye. V. Filipchuk, Candidate of Technical Sciences, paragraphs 8-11, 13-16 and 18-29 of Chapter II; A. Ye. Kharybin, Candidate of Technical Sciences, Chapter VI, and V. A. Klobukov, Candidate of Technical Sciences, paragraph 1 of Chapter IX and paragraph 1 of Chapter XIII. References appear at the end of each chapter.

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PEL'POR, D.S.

Motion of a gyroscope enclosed in a gymbal and having dynamically unbalanced gyrowheels. Nauch.dokl.vys.shkoly; mash. 1 prib. no.1:127-130 '59. (MIRA 12:8)

1. Stat'ya predstavlena kafedroy "Giproskopicheskie pribory" Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana.
(Gyroscope)

24(6)

SOV/146-2-5-9/19

AUTHOR: Pel'por, D.S., Doctor of Technical Sciences, Professor

TITLE: The Effect of Gimbal Frame Inertia on the Movement of a Gyroscope Mounted on a Vibrating Platform

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1959, Nr 5, pp 58 - 62 (USSR)

ABSTRACT: This theoretical investigation of angular gimbal frame motions caused by angular vibration of a gyroscope platform discusses the reaction moment generated in the gimbal and causing forced motion (i.e. gyroscopic precession). Formulae are developed for calculating the precessional velocity of gyrosemi-compasses and any non-static gimbal-mounted gyroscope on a vibrating platform. This article was recommended by the Kafedra AP-1 (The AP-1 Chair). There are 1 diagram and 2

Card 1/2

S/146/62/005/002/004/004
D201/D307

13,2520

AUTHORS:

Pel'por, D.S. and Sumarokov, N.P.

TITLE:

The motion of a three-axial gyroscopic stabilizer
on a rolling base

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priboros-
troyeniye, v. 5, no. 2, 1962, 100 - 108

TEXT:

The authors briefly consider the effect of the Car-
dan frame inertia, frictional moments in the platform stabilization
axes and of other moments at the motion of a three-axial gyro-stabili-
zer in an aircraft. It is shown that when the aircraft is rolling around
along its longitudinal axis, the stabilizer platform undergoes displace-
ments due to the inertia of the Cardan suspension frame, to the inertia
of the motor rotors and damping in the Cardan stabilizer axes. The roll
of the aircraft induces in gyroscopic stabilizers with external Cardan
a displacement moment from the inertia of suspension frame which acts
with respect to the external axis and may reach a considerable value,

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ACCESSION NR AN1040708

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Ch. IV. Some gyroscopic phenomena

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SUBMITTED: 23Jan64

SUB CODE: AC, 90

NO REF SOV: 034

OTHER: 001

Card 2/2

AM501273

Braslavskiy, D. A.; Logunov, S. S.; Pel'por, L. S.

Aircraft Instruments (Mashinostroyeniye", 64. 044 p. 1964. 110,000, 000, 000.

TOPIC TAGS: aircraft flight instrument, aircraft autopilot, gyrocompass, gyroscope system, inertial navigation equipment, accelerometer, original transmission, navigation equipment, aircraft.

PURPOSE AND COVERAGE: A textbook written in compliance with the program of "Aircraft Instruments" course for aircraft instrument construction technical schools. The book accounts on fundamentals of aircraft instruments theory, autopilots and gyroscopes and examines the most common designs and structural characteristics of instruments used in modern aircraft. The book is also useful for engineers, technicians who are working in designing and maintenance of aircraft instruments and for students of technical schools.

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AM5012738

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SUBMITTED: 22Oct64

SUB CODE: AC, NG

NO REF SOV: 033

OTHER: 001

Card

3/3

PEL'POR, Dmitriy Sergeyevich. Prinimali uchastiye: KOLOSOV,
Yu.A., kand. tekhn. nauk; SUMAROKOV, N.P., aspirant;
YSHLINSKIY, A.Yu., akademik, retsenzent; MIKHALEV,
I.A., kand. tekhn. nauk, prof., nauchn. red.;
SUVOROVA, I.A., red.

[Theory of gyroscopic stabilizers] Teoriia giroskopiche-
skikh stabilizatorov. Moskva, Mashinostroenie, 1965. 347 p.
(MIRA 18:12)

ACC NR: AM6013719

Monograph

UR/

Pal'por, Dmitriy Sergeyevich

Theory of gyroscopic stabilizers (Teoriya giroskopicheskikh stabilizatorov) Moscow, Izd-vo "Mashinostroyeniye," 1965. 347 p. illus., biblio. 5400 copies printed.

TOPIC TAGS: gyroscope system, gyroscope component, gyroscope motion equation

PURPOSE AND COVERAGE: The book outlines the principles of the design of gyroscopic stabilizers and presents an analysis of their errors under conditions which are close to operational conditions. Considerable attention is paid to phenomena occurring in gyro-stabilizers under various disturbing actions. Motions of stabilizers, installed on swinging bases and affected by linear, angular, and circular vibrations are investigated. Simple calculation formulas for determining the errors of gyrostabilizers are obtained. The book is intended for specialists working in the field of designing and studying gyroscopic instruments and systems. It can also be useful for graduate students and teaching personnel in the corresponding special fields of institutions of higher learning. The book was reviewed by the Academician A. Yu. Ishlinskiy and edited by Professor I. A. Mikhalev.

Card 1/3

UDC: 531.383.001.1

ACC NR: AM6013719

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SUB CODE: 17,05/ SUBM DATE: 26Oct65/ ORIG REF: 035/ OTH REF: 003

Card 3/3

ZDANSKIY, A.B.; SOLOV'YEVA, Ye.F.; EZROKHI, L.L.; LYAKHOVSKAYA, Ye.I.
Prinimali uchastiye: SHITIKOVA, V.S.; BEL'DY, M.P.; ROMANOVA,
V.A.; PEL'SH, A.D., red.; KOTS, V.A., red.; LEVIN, S.S., tekhn.
red.; ERLIKH, Ye.Ya., tekhn. red.

[Handbook of experimental data on the solubility of salt
systems] Spravochnik eksperimental'nykh dannykh po rastvori-
mosti solevykh sistem. Leningrad, Goskhimizdat. Vol.4. [Two-
component systems; elements of the IInd group and their
compounds] Dvukhkompontentnyye sistemy; elementy II gruppy i
ikh soedineniia. Sost. A.B.Zdanskii i dr. Pod red. A.D.Pel'sha,
1963. 2231-2878 p. (MIRA 17:2)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy institut
galurgii. 2. Fiziko-khimicheskaya laboratoriya Vsesoyuznogo
nauchno-issledovatel'skogo instituta galurgii (for Shitikova,
Bel'dy, Romanova).

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
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BC										a-2									
Reduction of sulphates in Oostpich (sea water). A. D. P. (Trans. Faraday Soc., 1938, No. 3, 81-82). The max. concn. of H_2S tolerated by <i>Micrococcus aerophilus</i> (van Delden) varies according to the pH. Inasmuch as H_2S is far less toxic than is H_2S, concns. of > 3400 mg. per l. of H_2S are tolerated at pH 9 (98% dissociation of H_2S) and may be achieved by the action of <i>Micrococcus</i> on sulphates. R. T.																			
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
1938-1947										1948-1957									
1958-1967										1968-1977									
1978-1987										1988-1997									

COMMON ELEMENTS										PROCESSES AND PROPERTIES INDEX										1ST AND 2ND EDITIONS										3RD AND 4TH EDITIONS									
Be																														17-4									
New autotrophic hydrogen sulphide bacteria. Hydrogenithiobacteria. A. D. PILSON (Trudl Solano Lab., 1936, No. 6, 109-120).—A new group of thiobacteria, termed hydrogenithiobacteria, which reduce S_8 to H_2S under anaerobic conditions in a medium composed of sea-water, NH_4Cl, $MgNH_4PO_4$, $NaHCO_3$, and $FeSO_4$, has been isolated from the water of the Gulf of Karabugas. R. T.																																							
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FROM STEEL										FROM IRON										FROM COPPER										FROM ZINC									

1. PHELSE, R., Prof.
2. USSR (600)
4. Stalin, Josif, 1879-1953
7. I. V. Stalin's work "Marxism and problems of linguistics" and study of folklore, Latv. PSR Zin. Akad. Vestis, No. 7, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

1. PELSE, R., Prof
2. USSR (600)
4. Language and Languages
7. I. V. Stalin's work "Marxism and problems of linguistics" and study of folklore.
Latv PSR Zin Akad Vestis No. 7 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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PROCEDURE AND PROPERTIES

CH

7

Silver absorber for gaseous halogen compounds. A. D. 5
 Polsh. *Applied Chem.* (U. S. S. R.) 8, 181 5 (1955).
 A Ag sponge which yielded very satisfactory results in the
 absorption of Cl₂, this permitting the detn. of C as CO₂
 by combustion, was prepd. from Ag waste (accumulated
 in labs. from Cl detns.) which was reduced with Zn, dis-
 solved in HNO₃, neutralized, filtered, pptd. (NaCl), re-
 duced and washed. The obtained product, which evi-
 dently consists of Ag covered by a thin film of AgCl, is
 heated slowly in a crucible with agitation; this produces
 after cooling a sponge which can be used for the absorption
 of gases. A. A. Kochtikhin

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION 1: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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PROCESSING AND PRESERVATION NOTES

The hydrobiology of the Karabugaz bay. A.D. Pich-
Trudy Solymoi Lab. (Vsesoyuz. Inst. Galurgin) Bull. No.
5, 49-60(1930).—*Aphanotecha salina* El. et Dan is the most
widespread organism found in the saline waters of this
bay and it apparently is best adapted for the salinity exist-
ing there (21-22°Bé.). Other forms are also found. The
 H_2S found is due to reduction of sulfates by bacteria. The
reactions accompanying the metabolism of the organisms
responsible for the H_2S are discussed. The alkali reserve
decreases with depth and the decrease is explained on the
basis of disturbance of water at the surface whereby the
lime particles are held in suspension whereas at the bottom
there are no currents and the particles settle out. The
bacterial forms, especially the sulfur bacteria, are de-
scribed.

J. S. Ioffe

METALLURGICAL LITERATURE CLASSIFICATION

U.S. GOVERNMENT PRINTING OFFICE
1960 AND 8TH EDITIONS

CA

112

The reduction of sulfates in the waters of the Caspian Sea. A. D. Pel'gh. *Trudy Sovetsk. Lab. (Vsesoyuz. Inst. Galurgin) No. 5, 81-108 (1936)*. - A study of the reactions involved in the reduction of sulfates to H₂S by *Microspira aestuarii* under anaerobic conditions.

J. S. Joffe

ASU-SLA DETAILED LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS																				3RD AND 4TH ORDERS																			
PROCESSES AND PROPERTIES INDEX																																							
<i>Co</i> The dynamics of the desulfatization process. A. D. Pel'sh., <i>Trudy Solyanol. Lab. (Vsesoyuz. Inst. Galurgin)</i> Bull. No. 14, 3-42 (in English 42-3) (1937).—A series of expts. with desulfatizing bacteria, <i>Vibrio aestuarii</i> van Delden, on artificial media of variable compn. have proved that the suppression of these bacteria begins at a definite H_2S concn. Whenever the concn. of H_2S has not reached its limit for suppression of the activity of the organisms such a suppression is usually the result of a shift in the pH of the medium. With a lowering of the pH there is a suppression. The higher the salt concn. the lower the limiting toxicity of the concn. of free H_2S. The media were prepd. with natural Caspian Sea water, with the same water concd. to 5°Bé., to 10°Bé., and to 15°Bé. and with the brine of the Karubugas Bay (23°Bé.). J. S. Joße																																							
ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION																																							

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
10 11 The energetics of the desulfatization process. A. D. Pel'ah. <i>Tруды Соляной Лаб. (Vsesoyuz. Inst. Galergin) Bull. No. 14, 45-70 (in English 70-81) (1937).</i>—P. analyzed the desulfatization process from the point of view of thermodynamics as developed by J. Baars (Over sulfaat-reductie door bacterien. Diss. Delft, 1930). The process consists of two phases: (1) anaerobic oxidation-reduction of the org. substratum, (2) the reduction of sulfate. Neither <i>Vibrio desulfuricans</i>, nor <i>V. aestuarius</i>, nor <i>V. thermodesulfuricans</i> is able to fulfill those phases of the process which require a considerable compensation of energy, i. e., which involve an increase in free energy. The <i>V. rubens</i> is the exception in this respect. The mechanism of the compensation of energy may be regarded as a reaction going on with some intermediate acceptor transferring H. The difference between the first 3 species and the fourth one (<i>V. rubens</i>) may be regarded as the difference in their intermediate acceptors (H-transferring agents). Although the nature of these agents is unknown, their affinity to H may be clarified. The generally adopted conception that the smaller yield of energy in the course of anaerobic desulfatization is due to consumption of energy in decompos. of SO_4^{--} seems to be inconsistent. The agreement of energy relations in the decompos. of SO_4^{--} and in subsequent oxidation of the substratum by the free H_2 corroborates nothing more than the Hess law. The smaller yield of the free energy in the desulfatization process is explained by the fact that the fixed oxygen in SO_4^{--}, being transferred without undergoing the stage similar to free H_2, has a smaller thermodynamic potential. The desulfatizing bacteria receive an addnl. quantity of energy by utilizing the fixed oxygen of the SO_4^{--}, which may be fully accounted for by the thermodynamic potential of the latter. H as a reducing agent is transferred in the course of desulfatization process neither in the mol. (H_2) nor in the atomic (2H) state, but in the fixed state. J. S. Joffe																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
1ST ORDER										2ND ORDER									
SUBJECT MATTER										AUTHOR									

18

CA

Thermal analysis of Karabogaz Bay brine. A. II.
 Prikl. Khim. Inst. Halurgii 1939, No. 2, 11-24; Khim.
 Referat. Zhur. 1939, No. 6, 24. Exptl. detns. of 18
 samples with a coeff. of metamorphosis of from 1.0 to 1.83
 and with sp. gr. of from 1.145 to 1.240 showed that the be-
 ginning of the deposition of mirabilite takes place at 7.6°. In
 connection with the expected 1939 change of Karabo-
 gaz Bay into a stable phase of deposition of NaCl, the temp.
 of deposition must change. The graphs obtained show
 that, with an identical coeff. of metamorphosis, the temp.
 of the beginning of deposition of mirabilite increases on
 a curve with increase of the sp. gr. It increases practically
 linearly (in the interval of the coeff. of metamorphosis of
 1.0-1.8) until a limit is reached. The true initial temp.
 lies 0.5-0.6° higher than that obtained from the cooling
 curves. W. R. Henn

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM: R0N1N7
 R01187 ONV 151

CA

2

Polytherm of solubility of sodium chloride and sodium sulfate between -10° and -35° . A. D. Pel'sh. *Trudy Vsesoyuz. Nauch. Issledovatel. Inst. Galit'ra* No. 21, 145-60 (1949). Water is simultaneously satd. with NaCl, Na_2SO_4 , and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ at -17.9° , and the soln. contains 22.31 wt. % NaCl and 7.70% Na_2SO_4 , and has d_{20}^{20} 1.245. Simultaneous satn. with NaCl, $\text{NaCl} \cdot 2\text{H}_2\text{O}$, and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ occurs at 0.1° (contrary to literature data) at 23.64% NaCl and 1.23% Na_2SO_4 in soln., whose d_{20}^{20} is 1.204. The soln. satd. with Na_2SO_4 and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ at 23° contains 14.03% NaCl and 14.94% Na_2SO_4 . The soln. satd. with NaCl and Na_2SO_4 at 35° contains 23.46% NaCl and 0.00% Na_2SO_4 . The soln. satd. with NaCl, $\text{NaCl} \cdot 2\text{H}_2\text{O}$, and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ at -10° contains 24.50% NaCl and 0.44% Na_2SO_4 . Many intermediate values are given. The solns. were rapidly stirred in a Dewar flask for at least 24 hrs.

laneous satn. with NaCl, $\text{NaCl} \cdot 2\text{H}_2\text{O}$, and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ occurs at 0.1° (contrary to literature data) at 23.64% NaCl and 1.23% Na_2SO_4 in soln., whose d_{20}^{20} is 1.204. The soln. satd. with Na_2SO_4 and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ at 23° contains 14.03% NaCl and 14.94% Na_2SO_4 . The soln. satd. with NaCl and Na_2SO_4 at 35° contains 23.46% NaCl and 0.00% Na_2SO_4 . The soln. satd. with NaCl, $\text{NaCl} \cdot 2\text{H}_2\text{O}$, and $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ at -10° contains 24.50% NaCl and 0.44% Na_2SO_4 . Many intermediate values are given. The solns. were rapidly stirred in a Dewar flask for at least 24 hrs.

J. J. Hickman

Z

CA

The aqueous system Na_2SO_4 , MgCl_2 , and NaCl .
 MgSO_4 . I. A. D. P. Ch. Prudy V. V. Nauch.-Issl.
 dokl. Inst. Gubergit No. 21, 100-85 (1949); cf. preceding
 abstr. The temp. of simultaneous satn. by NaCl , Na_2SO_4 ,
 and MgSO_4 , 1011.0 (I) is lowered from 17.9 to 16.3° by MgCl_2 ;
 at 16.2° the soln. is satd. with NaCl , Na_2SO_4 , I, and a
 trachanite (II); and contains NaCl 13.36, Na_2SO_4
 11.51, and MgCl_2 5.76%. Crystn. of II is often retarded,
 and further addn. of MgCl_2 can lower the temp. of
 satn. by NaCl , Na_2SO_4 , and I to 13.9° when also
 epsomite (III) crystallizes; the soln. satd. with these 4
 compnts. contains NaCl 3.12, Na_2SO_4 17.23, and MgCl_2
 211.0, I, and III, and contains NaCl 0.02, Na_2SO_4 4.41, and
 MgCl_2 15.88%. At 8.85° the soln. is satd. with NaCl , I,
 II, and III, and contains NaCl 6.84, Na_2SO_4 9.04, and MgCl_2
 13.08%. Because of the retarded crystn. of II, a soln.
 satd. with NaCl , I, and III can be warmed up to 13.9°.
 Many values for soln. and d. of all solns. are listed. II.
 180 (4). The soln. satd. with NaCl , Na_2SO_4 , and MgCl_2 at
 17.5°, 13.74%, 11.02%, and 5.81%, resp., at 20°, 13.92%,
 10.55%, and 5.99% at 25°, and 14.38%, 9.75%, and 0.16%
 at 35°. Also intermediate values are tabulated.
 J. J. Bikerman

PEL'SH A. D.

32347

Vzaimnaya Vodnaya Sistyema NA2 SO4 MGCL 2 - 2NACL MG SO4. Ploityermichyetskaya Oblast'
Sovmestnoy Rastvorimosti NA SO4 NACL dlya Intyervalov Ot 16, 2 DO 350 Trudy Vsesoyuz.
Nauch.-issled. in-ta galurgii, Vyp. 21, 1949, s. 186-96.-Bibliogr: 12 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

ZDANOVSKIY, A.B.; LYAKHOVSKAYA, E.I.; SHLEYMOVICH, R.E.; BUKHTEYN, V.M.,
redaktor; VALYASHKO, M.G., redaktor; PEL'SH, A.D., redaktor;

[Manual of experimental data on the solubility of multicomponent
water-salt systems] Spravochnik eksperimental'nykh dannykh po rastvo-
rimosti mnogokomponentnykh vodno-solevykh sistem. Vol.1 [Ternary sys-
tems] Trekhkomponentnye sistemy. Leningrad, Gos. nauchno-tekhn.
izd-vo khim. lit-ry, 1953. 670 p. (MIRA 7:8)

1. Leningrad. Vsesoyuznyy nauchno-issledovatel'skiy institut galurgii.
(Solution (Chemistry)) (Systems (Chemistry))

PEL'SH, A-D

4

✓ Diagram of the aqueous reciprocal system $\text{Na}_2\text{SO}_4 + \text{MgCl}_2 = 2\text{NaCl} + \text{MgSO}_4$ at 25° . A. D. Pel'sh, *Trudy Nauch.-issledovatel. Inst. Gokumet* No. 27, 3-16 (1953); *Referat. Zhur., Khim.* 1954, No. 42725. -- Multiple points and lines of combined soly. in the system $\text{Na}_2\text{MgCl}_2\text{SO}_4 + \text{H}_2\text{O}$ were experimentally tested in order to check the divergent views found in the literature on the soly. isotherm of this system at 25° . Also studied were the compns. of equil. solns. satd. jointly with thenardite, mirabilite, and astrakanite at $1/3-29.1^\circ$ and at 25° . The compn. at the multiple point at 25° was $2\text{Cl } 17.46$, $\text{SO}_4 \text{ } 50.13$, $2\text{Na } 47.18$, and $\text{Mg } 20.44$ moles per 1000 moles of H_2O . The compn. of equil. solns. jointly satd. with halite, epsomite, and astrakanite was studied in the interval of $5.85-30.9^\circ$. The compn. at the multiple point at 25° was $2\text{Cl } 55.16$, $\text{SO}_4 \text{ } 16.39$, $2\text{Na } 12.18$, and $\text{Mg } 60.37$ moles per 1000 of H_2O . The compn. of metastable solns. satd. jointly with halite, thenardite, and epsomite was detd. for the temp. interval of $13.9-27.5^\circ$. The compn. at the multiple point at 25° was $2\text{Cl } 41.12$, $\text{SO}_4 \text{ } 34.01$, $2\text{Na } 30.82$, and $\text{Mg } 44.31$ moles per 1000 moles of H_2O . The compn. of solns. in equil. with halite, epsomite, and hexahydrate ($\text{MgSO}_4 \cdot 6\text{H}_2\text{O}$) was studied in the temp. interval of $3.7-35^\circ$. The compn. at the multiple point at 25° was $2\text{Cl } 71.60$, $\text{SO}_4 \text{ } 11.38$, $2\text{Na } 4.24$, and $\text{Mg } 78.74$ moles per 1000 moles of H_2O . M. Hosh.

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PEL'SH, A. D.

✓ Diagram of 0, 2.5, and 5° isotherms of the reciprocal aqueous system $\text{Na}_2\text{SO}_4 + \text{MgCl}_2 \rightleftharpoons 2\text{NaCl} + \text{MgSO}_4$. A. D. Pel'sh. *Trudy Vsesoyuz. Nauch. Issledovatel. Inst. Khim. No. 27, 17-33 (1953); Referat. Zhur., Khim. 1954, No. 40878; cf. C.A. 46, 8948b; 49, 14459a.*—A soln. satd. with halite, epsomite, and bischofite is a stable eutonic of the system at 0° and has the compn. 2Cl 97.89, SO₄ 3.03, 2Na 1.07, and Mg 100.45 moles per 1000 moles H₂O. Another eutonic is a soln. satd. at 2.5° with halite, bischofite, and epsomite, and having the compn. Cl 97.91, SO₄ 4.05, Na 1.05, and Mg 100.91 moles per 1000 moles H₂O. The compn. of a soln. satd. at 5° with halite, epsomite, and sakaite (hexahydrate) is Na₂SO₄ 1.26, MgCl₂ 96.22, and MgSO₄ 3.31 moles per 1000 moles H₂O. A soln. satd. with halite, sakaite (MgSO₄·6H₂O), and bischofite at 5° is eutonic and has the compn. Na₂Cl 0.79, MgCl₂ 97.51, and MgSO₄ 4.50 moles per 1000 moles H₂O. On the basis of addl. data the boundaries of mirabilite and epsomite near the multiple point were defined. The lower temp. limit for the existence of sakaite is 3.7° and not 13° as was formerly accepted.

M. Hosch

Pel'sh, A.D.

Chem

✓ A square diagram for presentation of a quinary reciprocal system $\text{Na-K-Mg-Cl-SO}_4 + \text{H}_2\text{O}$. A. D. Pel'sh. *Trudy Vsesoyuz. Nauch.-Issledovatel. Inst. Gornosti* 1953, No. 27, 84-112; *Referat. Zhur., Khim.* 1955, No. 1822. The soly. isotherm of the system is constructed by orthogonal projection of the points presenting the compn. of the dry salt mass onto the square $\text{Na, Mg}||\text{Cl, SO}_4$. Contrary to the suggestion of Radishchev (*C.A.* 44, 9227a), on this projection are placed the points of Na and K salts and not of K and Mg salts. This permits the construction of the diagram using the sum of Na and K arbitrarily designated as [Na]. Such a projection is considered of greater practical use in salt studies. A complete diagram of the limits of halide crystn. in the quinary system at 25° is given together with auxiliary projections. A graphical analysis of the stable crystn. of halide by evapg. sea water at 25° is given. On the Radishchev diagram the configuration of the astrakhanite field was distorted because in its construction was assumed the erroneous result of van't Hoff concerning the compn. of the stable soln. of the quaternary system satd. simultaneously with NaCl, $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, and $\text{Na}_2\text{SO}_4 \cdot \text{MgSO}_4 \cdot 11\text{H}_2\text{O}$.

M. Hosh

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PEL'SH, A.D.

ZHDANOVSKIY, A.B.; LYAKHOVSKAYA, Ye.I.; SHLEYMOVICH, R.E.; BUKSHTEYN, V.M., redaktor; VALYASHKO, M.G., redaktor; PEL'SH, A.D., redaktor; KOTS, V.A., otvetstvennyy redaktor; LEVIN, S.S., tekhnicheskiiy redaktor; ERLIKH, Ye.Ya., tekhnicheskiiy redaktor.

[Handbook of experimental data on the solubility of multicomponent water-salt systems] Spravochnik eksperimental'nykh dannykh po rastvorimosti mnogokomponentnykh vodosolevykh sistem. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry. Vol.2.[Quaternary and more complex systems] Chetyrekhkomponentnye i bolee slozhnye sistemy. 1954. 1269 p. (MLRA 8:3)

(Solubility)(Salts)(Systems (Chemistry))

PEL'SH, A.D.

AKHUMOV, Ye.I., dotsent, kandidat khimicheskikh nauk; ROZEN, B.Ya., dotsent, kandidat khimicheskikh nauk.

Handbook of experimental data on the solubility of multicomponent water - salt systems." A.B.Zdanovskii, E.I.Liakhovskaia, R.E.Shleimovich, compilers; V.M.Bukshtein, M.G.Valiashko, A.D. Pel'sh, editors. Reviewed by E.I.Akhumov, B.IA.Rozen. Khim.prom. no.3:190 Ap-May '54. (MIRA 7:8)
(Solubility) (Salts) (Systems(Chemistry)) (Zdanovskiy, A.B.)
(Liakhovskaia, E.I.) (Shleimovich, R.E.)

12-11-1-11-11

Commercial method of extraction of natural brine 1948
neum oxide of low calcium oxide content. A. D. P. 1948

was continued...
more brine was added to the granular...
to the end of the...
take was...
...

Pel'sh, G. K.

137-1957-12-25492

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 362 (USSR)

AUTHOR: Pel'sh, G. K.

TITLE: Accelerated Semi-micro Methods for Quantitative Determination of Ions by Means of Weighing the Precipitates Contained in Centrifuge Tubes (Uskorennyye polumikrometody kolichestvennogo opredeleniya ionov putem vzveshivaniya osadkov v tsentrifuzhnykh probirkakh)

PERIODICAL: Uch. zap. LGU, 1957, Nr 211, pp 105-115

ABSTRACT: A description of methods in which a common analytic balance is employed to determine the content by weight of Ba^{++} , Ca^{++} , Pb^{++} , Ni^{++} , Cu^{++} , Zn^{++} , SO_4^{--} , and Cl^- from samples weighing between 2 mg and 100 mg. Sedimentation of the ion being determined is performed in 10 ml centrifuge tubes, which have been previously dried and weighed. The process of centrifuging requires 1 min in an electrical centrifuge capable of 2000 rpm. Separation of mother liquor and of wash water is performed by means of a pipette, i.e., a glass tube 20 cm long and 0.6 cm in diameter, with a semi-capillary end and a soft rubber cap.

Card 1/2

137-1957-12-25492

Accelerated Semi-micro Methods for Quantitative Determination (cont.)

After washing the sediments, test tubes containing them are dried for 10 - 20 minutes at a temperature of 120-140°, and then cooled in a desiccator for a period of 10 minutes. Time required for such determinations varies between one hour and twenty minutes to two hours. Absolute error constitutes 0.1 mg to 0.2 mg.
P. K.

1. Ions-Quantitative determination

Card 2/2

PEL'SH, G.K.; D'YACHKOV, V.I.

Extractive separation of thallium from its impurities by diphenylamine melts. Uch. zap. LGU no.297:102-108 '60. (MIRA 13:11)
(Diphenylamine) (Thallium)

PEL'SH, G.K.

Gravimetric determination of ions in centrifuge test tubes by drying
the precipitates. Uch. zap. LGU no.297:125-136 '60.

(MIRA 13:11)

(Chemistry, Analytical--Quantitative)

PEL'SH, G. K.

7

U S S R 1

2

Experimental investigation of metamorphization processes in natural brines. IV. Experimental investigation of metamorphization processes in saturated chloride-type solutions. G. K. Pel'sh and M. G. Valyashko. V. Experimental investigation of metamorphization processes by calcium ion in dilute sulfate-type solutions. M. G. Valyashko, A. A. Neklivera, and G. K. Pel'sh. *Trudy L'vovsk. Nauch. Inst. Geol.* No. 27, 269-74 (1963); cf. *ibid.* No. 23 (1962).—The basic reaction in the metamorphization of a system $\text{CaCl}_2\text{--MgCl}_2\text{--NaCl (KCl)--H}_2\text{O}$ with a soln. of $\text{Ca(HCO}_3)_2$ is the formation of dolomite. It proceeds so slowly that almost all the added $\text{Ca(HCO}_3)_2$ decomp. Therefore, the settled out solid phases consist of calcite with small admixts. (1-2%) of dolomite. In metamorphization with Ca of dil. sulfate-type solns. the basic reaction is the same as in satd. solns. viz. $\text{MgSO}_4 + \text{Ca(HCO}_3)_2 \rightleftharpoons \text{CaSO}_4 + \text{Mg(HCO}_3)_2$. However, as the diln. of the solns. increases, the area of this reaction contracts and is limited by solns. rich in MgSO_4 . On this score, the area where the reaction does not proceed to completion widens and gypsum alone is crystal. In the most dil. solns. only one solid phase is formed, CaCO_3 , according to $\text{Ca(HCO}_3)_2 \rightleftharpoons \text{CaCO}_3 + \text{CO}_2 + \text{H}_2\text{O}$. A study of silts from saline waterbeds contg. dil. sulfate-type brines shows that in these silts there is preponderance of Ca and a small content of gypsum and basic Mg carbonates. This is in accordance with exptl. results. Through *Referat. Zhur. Khim.* 1954, No. 41077. M. Hesch.

gml

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[Manual of experimental data on the solubility of salt systems]
Spravochnik eksperimental'nykh dannykh po rastvorimosti solevykh sistem. Leningrad, Gos. nauchno-tekhn.izd-vo khim. lit-ry. Vol.3. [Two-component systems; elements of the I group and their compounds] Dvukhkomponentnye sistemy; elementy I gruppy i ikh soedineniia. Sost. A.B.Zdanovskii i dr. Pod red. V.V. Viazovova, A.D.Pel'sha, 1961. 2224 p. (MIRA 15:3)

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partii Latvii.

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1. Akademiya nauk Latvyskoy SSR, Institut lesokhozyaystvennykh problem i khimii drevesiny.

(Corn(Maize)) (Hydrolysis) (Sulfuric acid)

NAKHMANOVICH, B. (Riga); SHCHEBLYKINA, N. (Riga); KALNINA, V. (Riga); PELSIS, D. (Riga)
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(Acetone) (Butyl alcohol) (Fermentation) (Corn(Maize))

PHLSIS, D. Ya.

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otv.red.; LIKHACHEV, A.N., red.izd-va; DOROKHINA, I.I.,
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1959. 203 p. (MIRA 12:8)

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PELTEANU, Ioan (Bucuresti); STANCU, I.M. (Bucuresti); CHITESCU, Ion (Bucuresti); STANESCU, Ilie (Sibiu); IONESCU, Traian (Braila); KACSO, F. (Cluj); MANESCU, L. (Rimnicu Vilcea); IONESCU-TIU, C.; FOCSENEANU, M.I.; POPA, Eugen (Iasi); MIHALCA, Dan (Bucuresti); PELIGRAD, Nicolae, prof. (Pitesti). BENI, I. Dorin (Comanesti); STANCU, Ion M. (Bucuresti).

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Viruses and Rickettsiae.

R-2

Abs Jour : Ref Zhur - Biol., No 17, 1958, N 78960.

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Inst : Not given

Title : Combination of an Epizootic of a Contagious Chronic
Respiratory Disease and Fever of Poultry.

Orig Pub : Probl. zootehn. si veterin., 1958, No 1, 63-64.

Abstract : No abstract given.

Card 1/1

BOGATSKIY, V.V., otv. red.; GOR'KIY, Yu.I., red.; DOBROVOL'SKIY, M.N., red.; KOROPETS, I.P., red.; KURTSEYATE, Sh.D., red.; PEL'TEK, Ye.I., red.; FAYNBERG, F.S., red.; KHAZAGAROV, A.M., red.; SHESTAKOV, Yu.G., red.; LIFSHITS, L., red.

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BOGOLEPOV, K.V.; VDOVIN, V.V.; KAZARINOV, V.P.; PEL'TEK, Ye.I.; YANSHIN, A.L.

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(PHAGOCYTOSIS, physiology,
eff. of anesth. & pain (Rus))

(PAIN, exper.
eff. on phagocytosis (Rus))

(ANESTHESIA, eff.
on phagocytosis (Rus))

PEL"TS, D.G.

Role of the cerebral cortex in modifying phagocytic activity
in animals following electrical stimulation of the skin. Biul.
eksp.biol. i med. 40 no.9:55-58 S '55. (MLRA 8:12)

1. Iz kafedry patologicheskoy fiziologii (nach-chlen-korres-
pondent AMN SSSR I.P.Petrov) Voenno-meditsinskoy akademii
imani S.M.Kirova.

(ELECTRICITY, effects,

on phagocytosis, eff. of conditioned stimulus on
phagocytic reaction in animals)

(REFLEX, CONDITIONED,

eff. of conditioned stimulus on phagocytic reaction
in animals)

(PHAGOCYTOSIS,

eff. of conditioned stimulus on reaction to electric
irritation in animals)

USSR/Human and Animal Physiology (Normal and Pathological).
The Liver.

T-8

Abs Jour : Ref Zhur - Biol., No 11, 1958, 51004

Author : Pel'ts, L.O.

Inst : -

Title : The Function of the Liver in Children with Pneumonia.

Orig Pub : Pediatriya, akusherstvo i ginekologiya, 1957, No 2, 35-39.

Abstract : No abstract.

Card 1/1

- 79 -

PELTEMIROV, G.A.

"Guide for Engineers and Technicians of Petroleum Storing and Distributing Plants".

/SO: B2-82299 16 Sept. 1954.

TRANSLATION:

2

PROCESSES AND PROPERTIES INDEX

Characteristics of sulfate solutions of quadrivalent titanium. XIX. A. V. Pamylov, N. V. Polikhin, and I. M. Soboleva (Gorskii Indust. Inst. and Lening. Chem. Tech. Inst.). *J. Applied Chem.* (U.S.S.R.) 20, 61-8 (1947) (in Russian); cf. *C.A.* 35, 2432. —Sols. made by treating ilmenite concentrates (TiO_2 34%) or industrial metatitanic acid (TiO_2 80%) with 70% H_2SO_4 at 120° , then at $140-00^\circ$, 1 1/2 hrs., and dilg. with water, showed no substantial change of viscosity and compn. after 6 months. Sols. from ilmenite are more stable, while those made from metatitanic acid are more difficultly sedimented and filtered. A new seed soln. ("Agard's seed") contains 50 g./l. TiO_2 and 15-17 g./l. active H_2SO_4 ; it has a deep-brown color, blue opalescence, and is transparent in transmitted light. Inoculation with 1% (with respect to TiO_2 content) of Agard's seed soln. of sols. contg. about 110 g./l. TiO_2 , 230 g./l. active H_2SO_4 , produced 25-30% hydrolysis to hydrated TiO_2 within 1 hr.; hydrolysis started at $00-07^\circ$ and was complete at 102° . The new soln. is thus more active than Mecklenburg's gray-blue suspension.

N. Thon

Pe'sh, A.K.

✓ A rapid gravimetric method for the determination of ions by weighing the precipitates in centrifuge tubes. G. K. Pel'sh. Uchenye Zapiski Leningrad. Gosudarst. Univ. im. A. A. Zhdanova No. 211, Ser. Khim. Nauk No. 15, 103-16 (1967).—A simplified method of gravimetric detns. of some cations and anions is described. The ppt. formed is washed, centrifuged, dried, and weighed in centrifuge tubes. This method was checked on the detns. of Ba^{++} , Ca^{++} , Pb^{++} , Cu^{++} , Zn^{++} , Ni^{++} , SO_4^{--} , and Cl^- . In all the cases, abs. error is 0.1-0.2 mg. for the samples of 2-100 mg.

(Labatky)

4/1-4E3d
1-4E4x

11
178

1ST AND 2ND COLUMNS																										3RD AND 4TH COLUMNS																									
PROCESSES AND PROPERTIES INDEX																																																			
<i>Ca</i> Pigment properties of titanium dioxide. A. V. Pankov and S. V. Pel'tikhin. <i>Zhur. Priklad. Khim. (J. Applied Chem.)</i> 22, 245-6 (1949). -- TiO_2 with rutile structure is superior to anatase as a pigment, particularly with regard to covering power and from the point of view of chalking tendency. Rutile structure is obtained directly by hydrolysis of boiling TiCl_4 with subsequent 3-hrs. ignition at 800°. The anatase produced by hydrolysis of the sulfate is transformed into rutile by firing at a temp. higher than 800°. N. Thon <i>26</i> <i>Laques Paint Lab., Ivanovo Chemico-Tech. Inst.</i>																										COMMON VARIABLE INDEX																									
ASM-AIA METALLURGICAL LITERATURE CLASSIFICATION																																																			
1ST AND 2ND COLUMNS																										3RD AND 4TH COLUMNS																									
1ST AND 2ND COLUMNS																										3RD AND 4TH COLUMNS																									

PEL'TIKHIN, S. V.: TOPOROVA, N.F.

Leather industry and Trade

New soft leather substitutes for special clothing., Leg. prom., no. 1, 1952

Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED.

PEL'TIKHIN, S.V. (g.Voroshilovgrad); SOBOLEVA, I.M. (g. Voroshilovgrad)

Supplementary instructions for conducting experiments in the
teaching program on carbohydrates. Khim.v shkole 11 no.5:49-52
S-O '56. (MLRA 9:11)

(Carbohydrates)

PEL'SHE, A. Ya.

AUTHOR: Pel'she, A.Ya., Secretary of Latvian TsK KP 3-12-4/27

TITLE: Striking Indicators of Cultural Rise (Yarkiye pokazateli pod'yema kul'tury)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 12, pp 22-32 (USSR)

ABSTRACT: The author gives a description of the cultural level of the Latvian SSR during the bourgeois regime and states that the real development of culture and education took place only after Socialism was introduced in 1940. This was a difficult task since the majority of the national intelligentsia emigrated and the remaining part was politically unreliable and even hostile to the Soviet regime. A radical reorganization of the educational system took place. The Latvian University was re-opened in 1944. There are now the following faculties: biology, geography, construction engineering, history, linguistics, mechanics, physics, mathematics, chemistry, economy and law. There are also evening and correspondence courses. Post-graduate courses are arranged for the training of scientific pedagogical workers. There is a large staff of teachers including 2 academicians, 16 professors, and 106 dotsents.

Card 1/2

USSR / Soil Science Tilling. Melioration. Erosion. J

Abs Jour : Ref Zhur - Biologiya, No 11, 1958, No. 48688

Author : Soboleva, I. M.; Pol'tikhin, S. V.

Inst : Voroshilov Agricultural Institute

Title : Changes in the Composition of Water-Soluble Soil Salts in Some Districts of Voroshilovgradskaya Oblast' in the Irrigation with Mine Waters

Orig Pub : Nauchn. Zap. Voroshilovgradsk. s.-kh. in-ta, 1956, 4, No 1, 49-53

Abstract : Mine waters utilized for the irrigation of agricultural crops have a solid residue of 1360-2624 mg/l (about 300 mg of Cl 470-1200 mg of sulphate-ion and 172-320 mg of hydrocarbonate-ion). By the end of the irrigation period, the chernozem soils irrigated with these waters are slightly saline with the Cl content

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Ref Zhur - Biologiya, No 11, 1958, No. 48688

of 0.01-0.027%. During the fall-winter period the concentration of chlorine decreases to 1/8-1/12 and the content of sulphate-ion to 1/2-1/3. The bicarbonate-ion content does not exceed 0.025-0.035%. With regard to the water soluble salts content the irrigated soils have no harmful effect on the agricultural crops. -- S. A. Nikitin

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239910014-1

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